FIG. 1

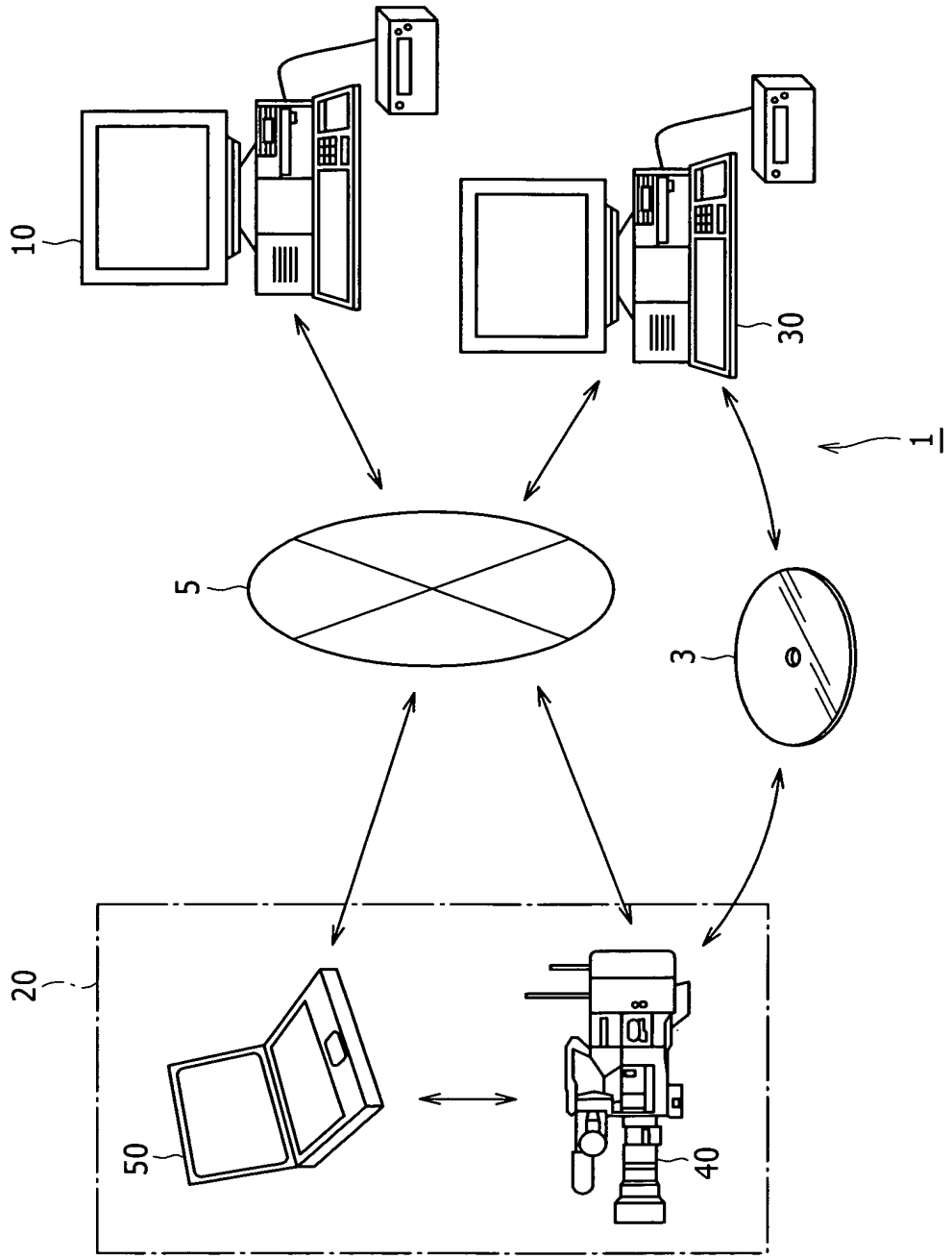

FIG. 2

PROGRAM IDENTIFICATION LAYER	MATERIAL GATHERING LAYER		SCENE LAYER		CUT LAYER						
							TAKE-RELATING INFORMATION				
	MATERIAL GATHERING INSTRUCTION	MATERIAL GATHERING MEMO	SCENE INSTRUCTION	SCENE MEMO	CUT INSTRUCTION	CUT MEMO	TAKE DATA	OK/NG	VIDEO FILE NAME	LOW-RESOLUTION FILE NAME	METADATA FILE NAME
[ID] P2002-10 [Ttl] NOODLE SOUP BOUNDARY BETWEEN THE EAST AND WEST JAPAN	[ID] A2002-1001 [Ttl] NOODLE SOUP OF NAGOYA [Cam] KOIZUMI [Rep] FUKUDA [Plc] A SOBA SHOP, NAGOYA [Tim] 9:00 - 10:00 [Dsc] INTRODUCES THAT NAGAYA' S NOODLE SOUP IS BASED ON STOCK.	[Dsc] NAGOYA ALSO HAS MANY SHOPS USING AKAMISO-BASED SOUP. SO, IT WOULD BE BETTER TO INTRODUCE THEM LATER.	[No] 1 [Ttl] EXTERNAL VIEW OF SHOP	[Dsc] NAGOYA CASTLE IS SCENE BEHIND THE SHOP LOCATED ON SHOPPING STREET.	[No] 1 [Ttl] WHOLE SHOP	[Dsc] 2 TAKES MADE	[No]1 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-1 .mxf	LORES-1 .mpg	TAKE-METADATA-1 .xml
							[No]2	NG	VIDEO-2 .mxf	LORES-2 .mpg	TAKE-METADATA-2 .xml
					[No] 2 [Ttl] ENTRANCE OF SHOP		[No]3 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-3 .mxf	LORES-3 .mpg	TAKE-METADATA-3 .xml
			[No] 2 [Ttl] INSIDE SHOP [Dsc] SHOW THAT NOODLE SOUP COLOR IS THIN IN NAGOYA.		[No] 1 [Ttl] ASK OWNER FOR COLOR OF NOODLE SOUP	[Dsc] OWNER' S FACIAL EXPRESSION IS ATTRACTIVE	[No]4 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-4 .mxf	LORES-4 .mpg	TAKE-METADATA-4 .xml
					[No] 2 [Ttl] COLOR OF SOUP IS THIN		[No]5 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-5 .mxf	LORES-5 .mpg	TAKE-METADATA-5 .xml
					[No] 3 [Ttl] REPORTER EATS NOODLE		[No]6 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-6 .mxf	LORES-6 .mpg	TAKE-METADATA-6 .xml
	[ID] A2002-1002 [Ttl] SOUP OF MIKAWA-ANJO [Cam] KOIZUMI [Rep] FUKUDA [Plc] A SOBA SHOP, MIKAWA-ANJO [Dsc] CONCLUDES THAT MIKAWA-ANJO IS THE BOUNDARY OF NOODLE SOUP COLOR.	[Dsc] IN MIKAWA-ANJO, NOODLE SOUP COLORS SOMETIMES DIFFER FROM SHOP TO SHOP THAT ARE AS CLOSE AS 100 METERS.	[No] 1 [Ttl] EXTERNAL VIEW OF SHOP	[Dsc] OLD CITYSCAPE IS IMPRESSIVE	[No] 1 [Ttl] WHOLE SHOP		[No]7	NG	VIDEO-7 .mxf	LORES-7 .mpg	TAKE-METADATA-7 .xml
							[No]8 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-8 .mxf	LORES-8 .mpg	TAKE-METADATA-8 .xml
					[No] 2 [Ttl] ENTRANCE OF SHOP		[No]9 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-9 .mxf	LORES-9 .mpg	TAKE-METADATA-9 .xml
			[No] 2 [Ttl] INSIDE SHOP [Dsc] OWNER DESCRIBES THAT THERE ARE NOODLE SOUPS OF VARIOUS THICKNESSES IN THE AREA AND REPORTER ANNOUNCES THAT HE /SHE WILL PROVE IT.		[No] 1 [Ttl] ASK OWNER FOR COLOR OF NOODLE SOUP		[No]10 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-10 .mxf	LORES-10 .mpg	TAKE-METADATA-10 .xml
					[No] 2 [Ttl] COLOR OF NOODLE SOUP IS INTERMEDIATE		[No]11 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-11 .mxf	LORES-11 .mpg	TAKE-METADATA-11 .xml
					[No] 3 [Ttl] TESTIMONY BY OWNER		[No]12 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-12 .mxf	LORES-12 .mpg	TAKE-METADATA-12 .xml
			[No] 3 [Ttl] OUTSIDE SHOP [Dsc] MAKE COMPARISON BETWEEN SOME SOBA SHOPS IN THE AREA AND ANNOUNCE THAT MIKAWA-ANJO FORMS THE BOUNDARY.		[No] 1 [Ttl] DELIVERY SERVICE PERSONNEL OF EACH SHOP		[No]13 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-13 .mxf	LORES-13 .mpg	TAKE-METADATA-13 .xml
					[No] 2 [Ttl] COMPARE COLORS OF NOODLE SOUPS	[Dsc] THERE IS DISTINCTIVE DIFFERENCE BETWEEN COLORS	[No]14 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-14 .mxf	LORES-14 .mpg	TAKE-METADATA-14 .xml
					[No] 3 [Ttl] DECLARATION OF BOUNDARY		[No]15 [IN]xx:xx:xx:xx [OUT]xx:xx:xx:x	OK	VIDEO-15 .mxf	LORES-15 .mpg	TAKE-METADATA-15 .xml

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FIG. 3

```
A { <?xml version="1.0" encoding="Shift_JIS"?>
B { <ProgramMetadata id="P2002-10"title="BOUNDARY OF NOODLE SOUP COLOR BETWEEN EAST AND WEST JAPAN ">
  C { <Acquisition>
        D { <Assignment id="A2002-1001"title="NOODLE SOUP OF NAGOYA">
              <Cameraman>KOIZUMI</Cameraman>
              <Reporter>FUKUDA</Reporter>
              <Time begin="9:00"end="10:00"/>
              <Place>A SOBA SHOP, NAGOYA</Place>
              <Description>INTRODUCES THAT NAGOYA' S NOODLE SOUP IS BASED ON STOCK</Description>
            </Assignment>
        E { <FieldNote>NAGOYA ALSO HAS MANY SHOPS USING AKAMISO-BASED SOUP.
                       SO, IT WOULD BE BETTER TO INTRODUCE THEM LATER</FieldNote>
        F { <Scene no="1" title="EXTERNAL VIEW OF SHOP">
              G { <Cut no="1" title="WHOLE SHOP">
                    <Take no="1" inPoint="xx:xx:xx:xx"outPoint="xx:xx:xx:xx"status="OK">
                      <Material href="file://VIDEO-1.mxf"/>
                      <Proxy href="file://LORES-1.mpg"/>
                      <Metadata href="file://TAKE-METADATA-1.xml"/>
                    </Take>
                    <Take no="2" status="NG">
                      <Material href="file://VIDEO-2.mxf"/>
                      <Proxy href="file://LORES-2.mpg"/>
                      <Metadata href="file://TAKE-METADATA-2.xml"/>
                    </Take>
                  </Cut>
              H { <CutNote>2 TAKES MADE</CutNote>
                  <Cut no="2" title="ENTRANCE OF SHOP">
                    <Take no="3" inPoint="xx:xx:xx:xx"outPoint="xx:xx:xx:xx">
                      <Material href="file://VIDEO-3.mxf"/>
                      <Proxy href="file://LORES-3.mpg"/>
                      <Metadata href="file://TAKE-METADATA-3.xml"/>
                    </Take>
                  </Cut>
            </Scene>
        I { <SceneNote>NAGOYA CASTLE IS SCENE BEHIND THE SHOP LOCATED ON SHOPPING STREET</SceneNote>
```

FIG. 4

```
<Scene no="2" title="INSIDE SHOP">
        <Description>SHOW THAT NOODLE SOUP COLOR IS THIN IN NAGOYA</Description>
        <Cut no="1" title="ASK OWNER FOR COLOR OF NOODLE SOUP">
          <Take no="4" inPoint="xx:xx:xx:xx"outPoint="xx:xx:xx:xx">
            <Material href="file://VIDEO-4.mxf"/>
            <Proxy href="file://LORES-4.mpg"/>
            <Metadata href="file://TAKE-METADATA-4.xml"/>
          </Take>
        </Cut>
        <CutNote>OWNER' S FACIAL EXPRESSION IS ATTRACTIVE</CutNote>
        <Cut no="2" title="COLOR OF NOODLE SOUP IS THIN">
          <Take no="5" inPoint="xx:xx:xx:xx"outPoint="xx:xx:xx:xx">
            <Material href="file://VIDEO-5.mxf"/>
            <Proxy href="file://LORES-5.mpg"/>
            <Metadata href="file://TAKE-METADATA-5.xml"/>
          </Take>
        </Cut>
        <Cut no="3" title="REPORTER EATS NOODLE">
          <Take no="6" inPoint="xx:xx:xx:xx"outPoint="xx:xx:xx:xx">
            <Material href="file://VIDEO-6.mxf"/>
            <Proxy href="file://LORES-6.mpg"/>
            <Metadata href="file://TAKE-METADATA-6.xml"/>
          </Take>
        </Cut>
      </Scene>
      <!-- OMITTED BELOW -->
    </Acquisition>
  </ProgramMetadata>
```

J

C'

B'

FIG. 5

FILE NAME	TAKE METADATA
TAKE METADATA 1 .xml	[Dsc] HEAVY CAR TRAFFIC [Date] 2002/4/15 [Time] 12:35:14 [Pos] N35° 40′23″, E135° 35′ 50″ [Machine] XXX-100(123456) [Setup] filter; 1-2 white switch; A gain; 0 dcc; off shutter; off extender; off

FIG. 6

```
A{ <?xml version="1.0" encoding="iso-8859-1"?>
B{ <TakeMetadata no="1">
    C{ <Description>HEAVY CAR TRAFFIC</Description>
    D{ <CreationDate is SummarTime="false">2002-04-15</CreationDate>
       <CreationTime is SummarTime="false">12:35:14+09:00</CreationTime>
       <Position>N35° 40′ 23″, E135° 35′ 50″</Position>
    E{ <Device>
         <Machine name="XXX-100" serialNo="12345678"/>
         <CameraSetting filter="1-2" whiteswitch="A" gain="0" dcc="off"shutter="off"extender="off"/>
       </Device>
B'{ </TakeMetadata>
```


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FIG. 7

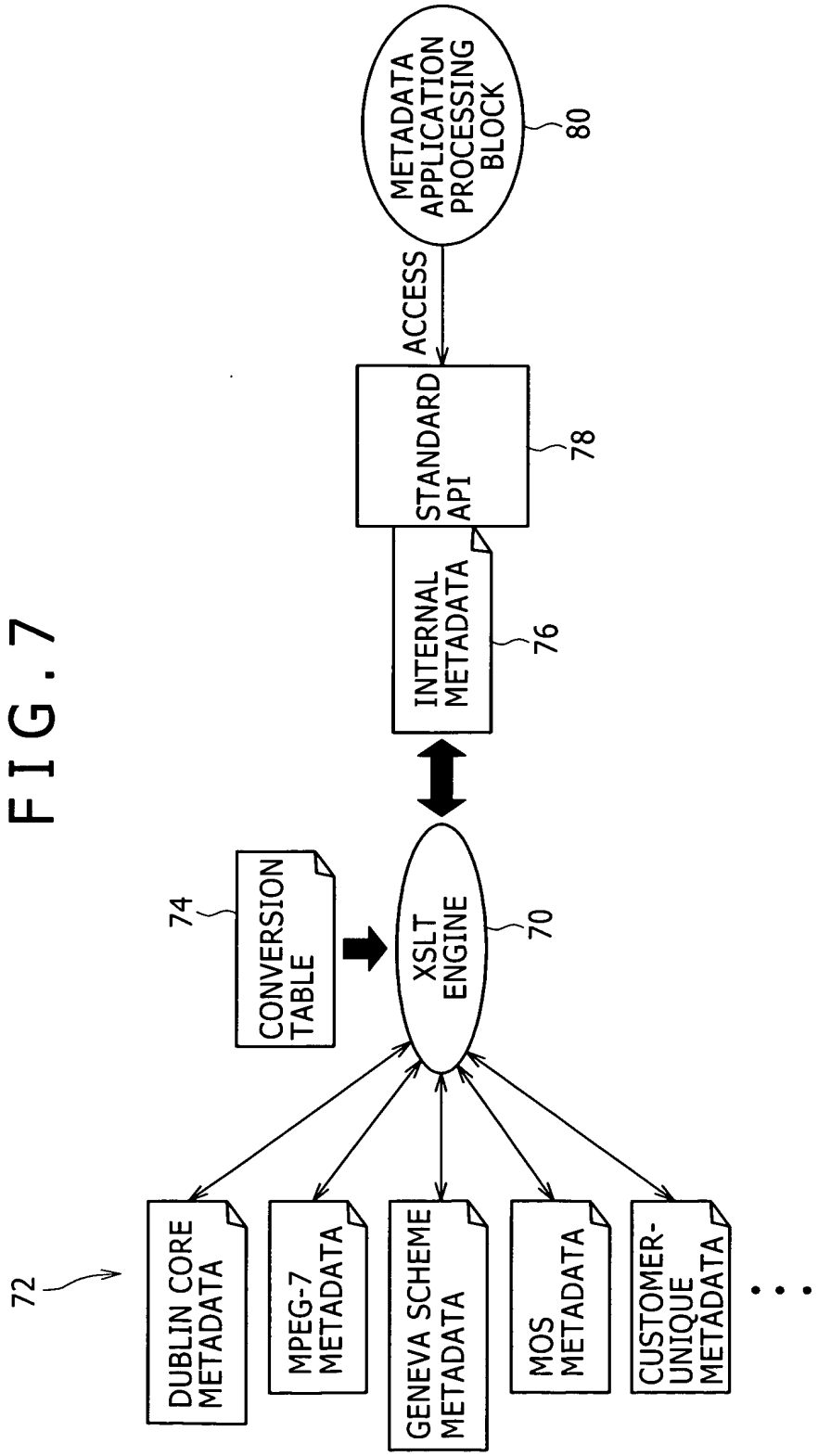

METADATA APPLICATION PROCESSING BLOCK
80
ACCESS
STANDARD API
78
INTERNAL METADATA
76
CONVERSION TABLE
74
XSLT ENGINE
70
72
DUBLIN CORE METADATA
MPEG-7 METADATA
GENEVA SCHEME METADATA
MOS METADATA
CUSTOMER-UNIQUE METADATA
...

FIG. 8

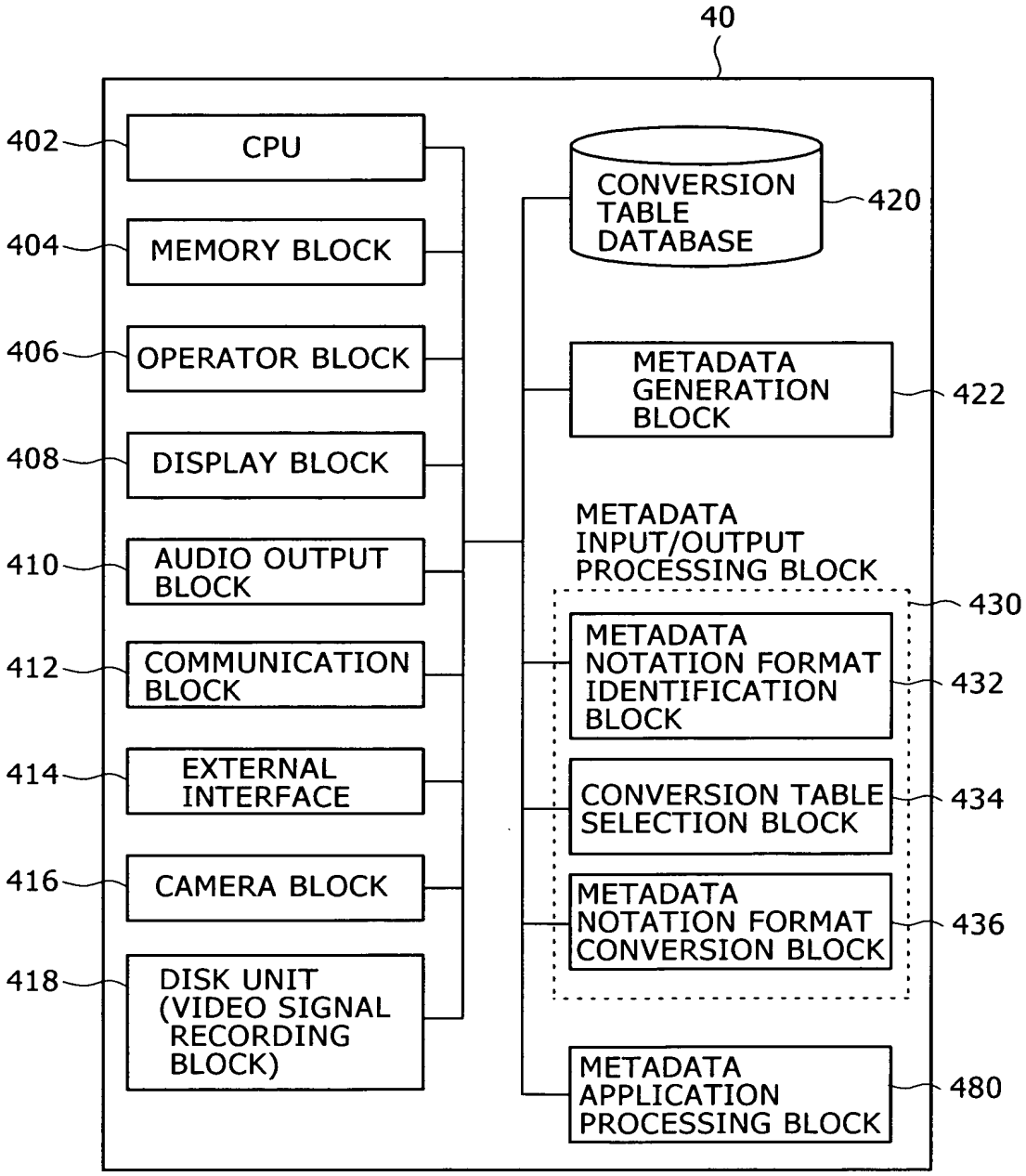

40
402
CPU
404
MEMORY BLOCK
406
OPERATOR BLOCK
408
DISPLAY BLOCK
410
AUDIO OUTPUT BLOCK
412
COMMUNICATION BLOCK
414
EXTERNAL INTERFACE
416
CAMERA BLOCK
418
DISK UNIT (VIDEO SIGNAL RECORDING BLOCK)
CONVERSION TABLE DATABASE
420
METADATA GENERATION BLOCK
422
METADATA INPUT/OUTPUT PROCESSING BLOCK
430
METADATA NOTATION FORMAT IDENTIFICATION BLOCK
432
CONVERSION TABLE SELECTION BLOCK
434
METADATA NOTATION FORMAT CONVERSION BLOCK
436
METADATA APPLICATION PROCESSING BLOCK
480

FIG. 9

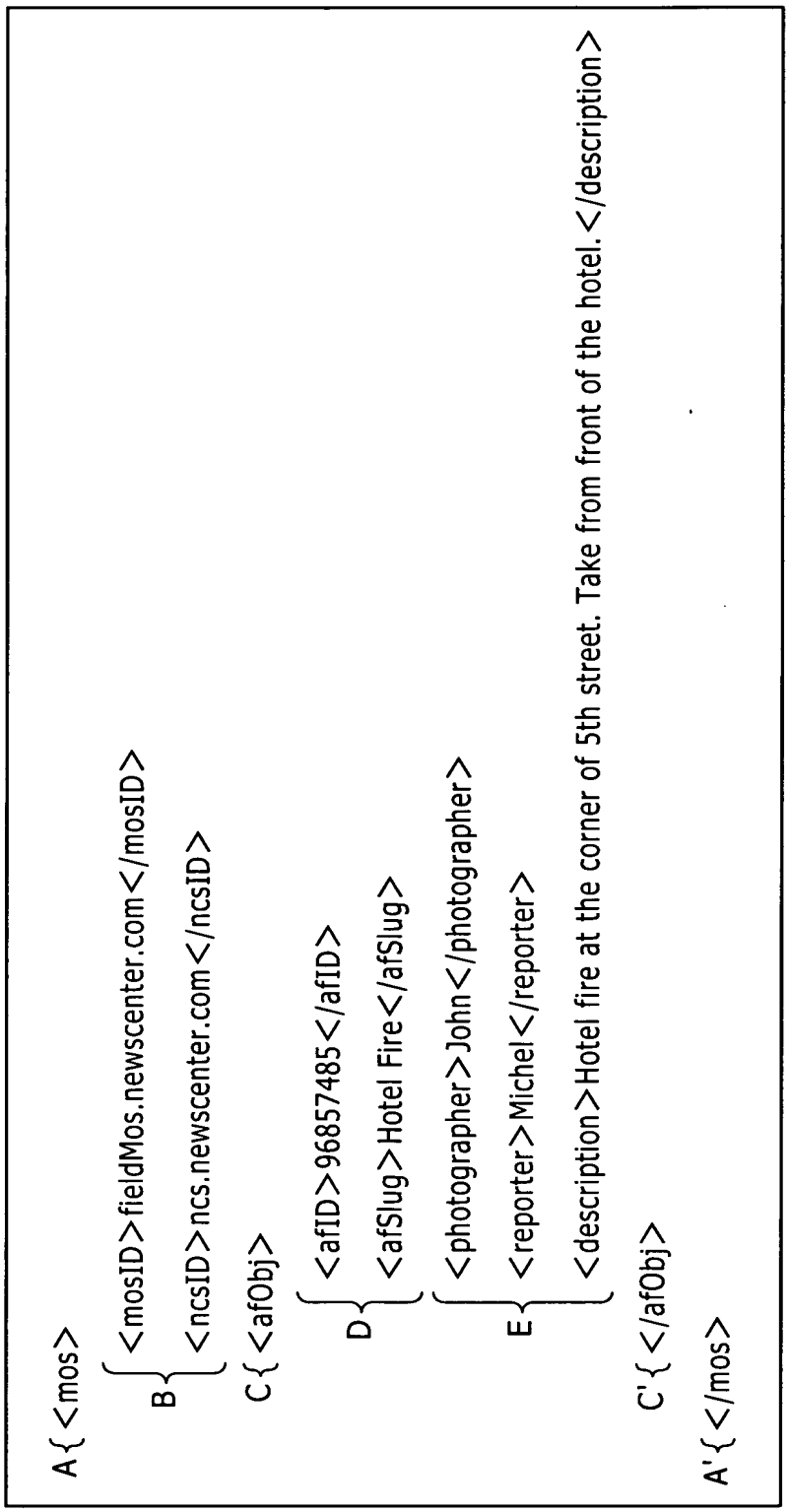

A{<mos>
B{<mosID>fieldMos.newscenter.com</mosID>
<ncsID>ncs.newscenter.com</ncsID>
C{<afObj>
D{<afID>96857485</afID>
<afSlug>Hotel Fire</afSlug>
E{<photographer>John</photographer>
<reporter>Michel</reporter>
<description>Hotel fire at the corner of 5th street. Take from front of the hotel.</description>
C'{</afObj>
A'{</mos>

FIG. 10

MOS METADATA	INTERNAL METADATA
afObj	Aquisition
afID	Assignment@id
afSlug	Assignment@title
photographer	Cameraman
reporter	Reporter
description	Description

FIG. 11

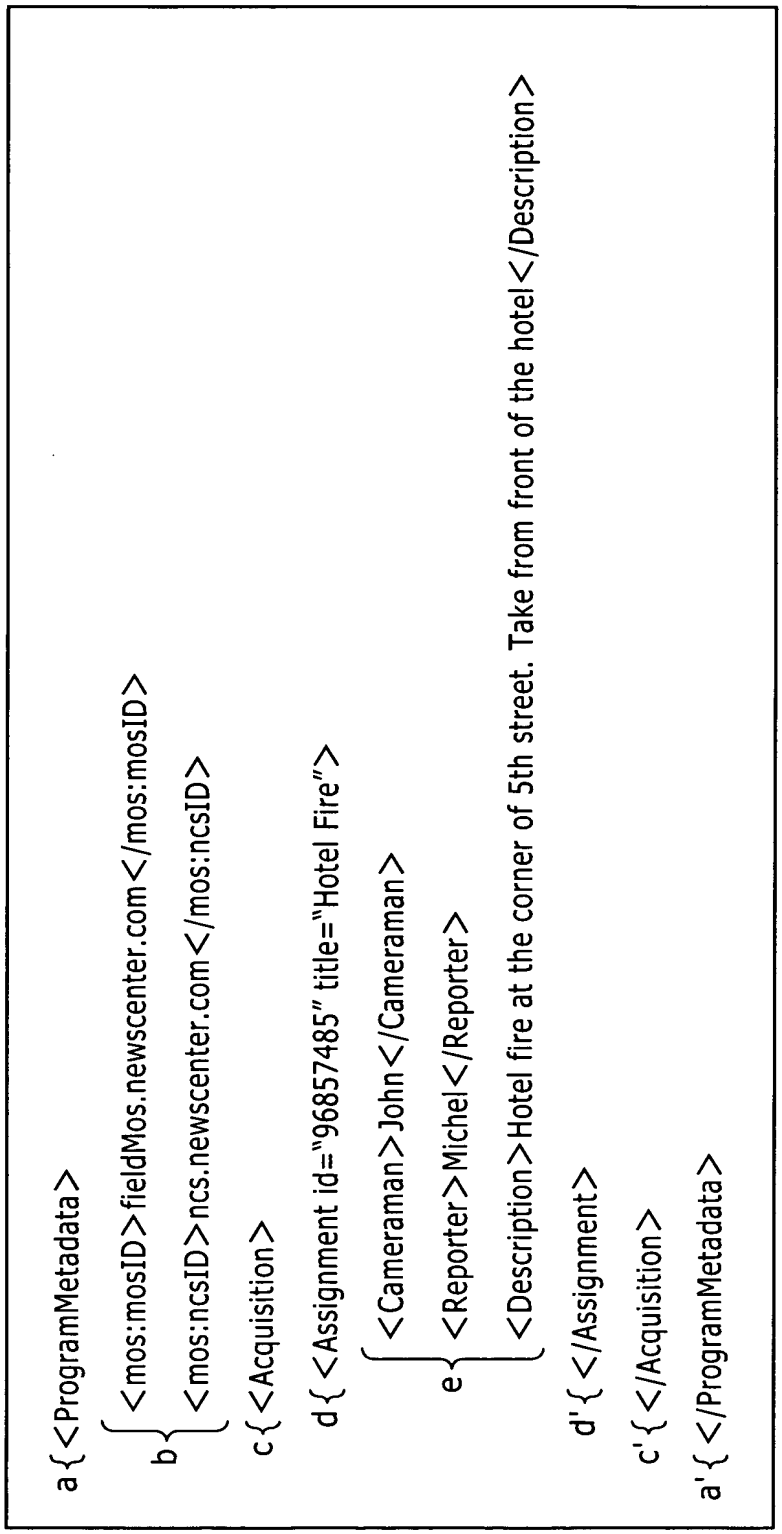

a {<ProgramMetadata>
b {<mos:mosID>fieldMos.newscenter.com</mos:mosID>
<mos:ncsID>ncs.newscenter.com</mos:ncsID>
c {<Acquisition>
d {<Assignment id="96857485" title="Hotel Fire">
e {<Cameraman>John</Cameraman>
<Reporter>Michel</Reporter>
<Description>Hotel fire at the corner of 5th street. Take from front of the hotel</Description>
d' {</Assignment>
c' {</Acquisition>
a' {</ProgramMetadata>

FIG. 12

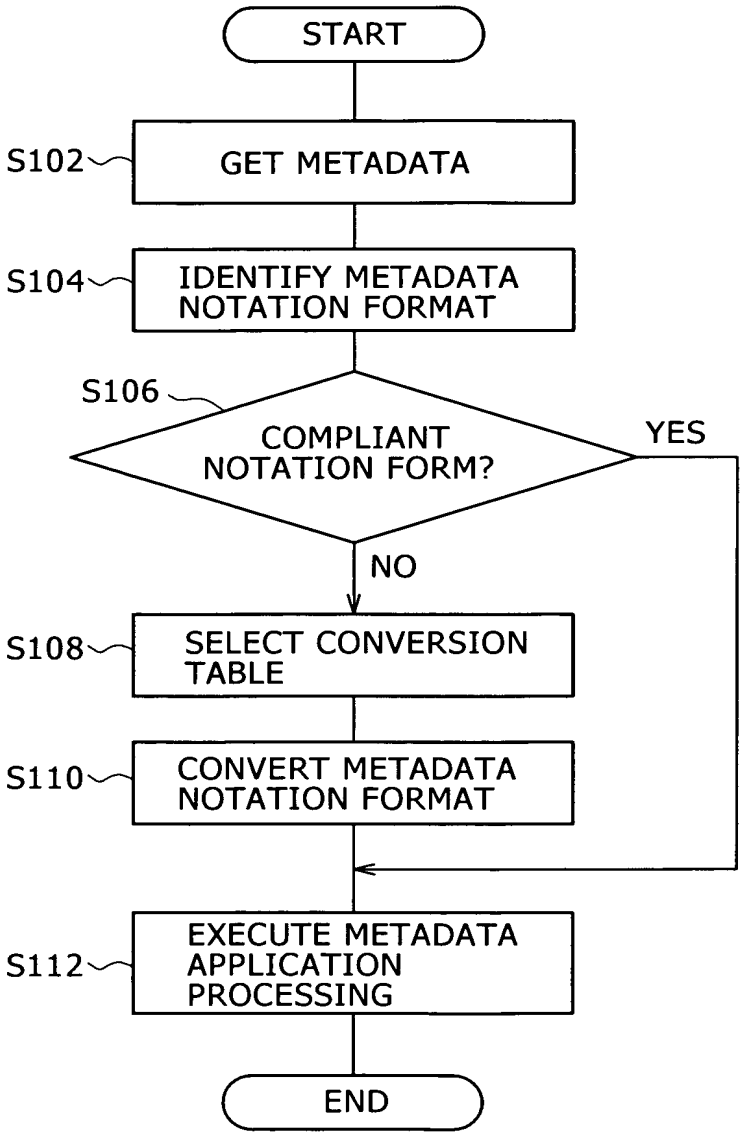

START
S102
GET METADATA
S104
IDENTIFY METADATA NOTATION FORMAT
S106
COMPLIANT NOTATION FORM?
YES
NO
S108
SELECT CONVERSION TABLE
S110
CONVERT METADATA NOTATION FORMAT
S112
EXECUTE METADATA APPLICATION PROCESSING
END

FIG. 13

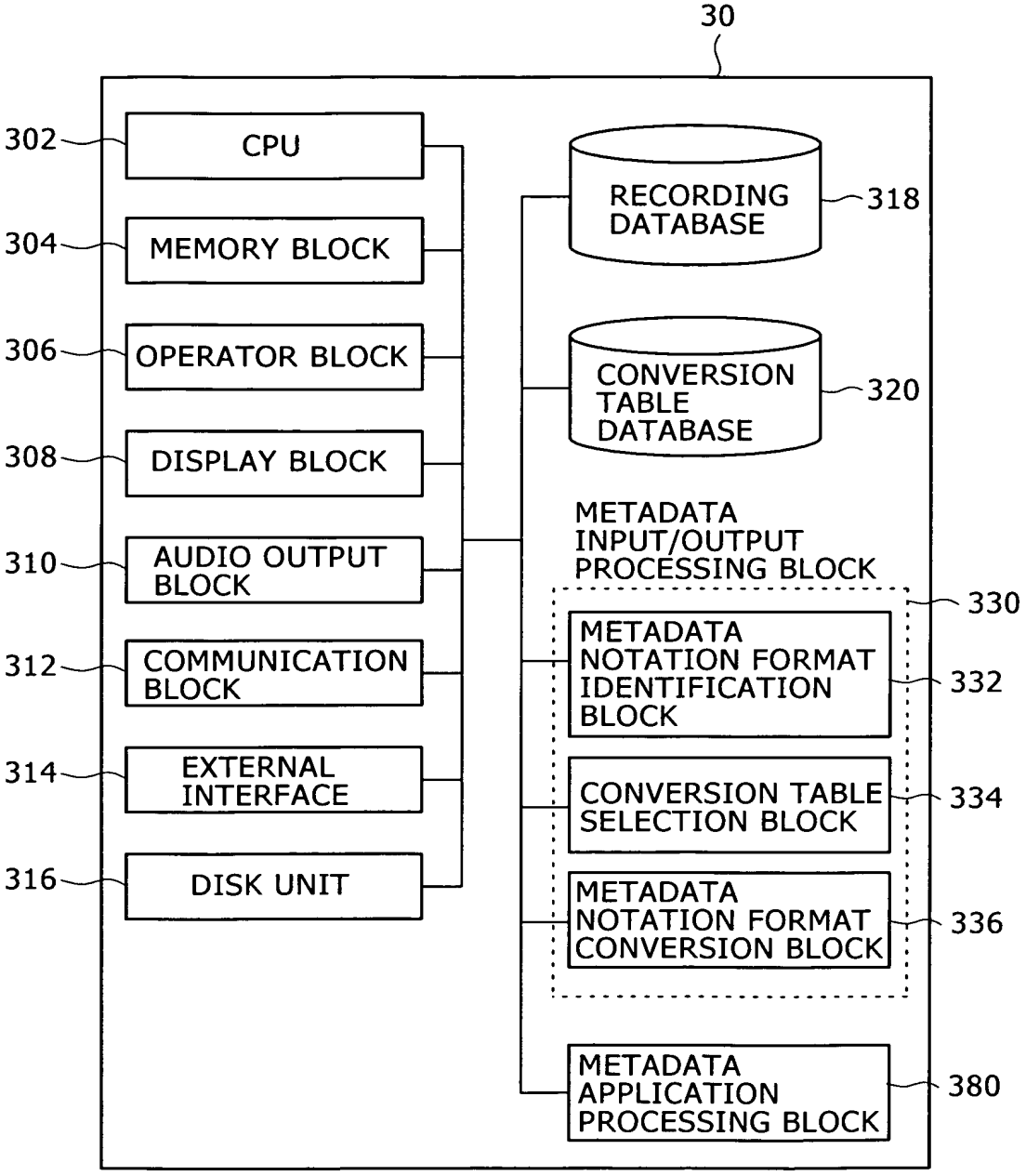

30
302
CPU
304
MEMORY BLOCK
306
OPERATOR BLOCK
308
DISPLAY BLOCK
310
AUDIO OUTPUT BLOCK
312
COMMUNICATION BLOCK
314
EXTERNAL INTERFACE
316
DISK UNIT
RECORDING DATABASE
318
CONVERSION TABLE DATABASE
320
METADATA INPUT/OUTPUT PROCESSING BLOCK
330
METADATA NOTATION FORMAT IDENTIFICATION BLOCK
332
CONVERSION TABLE SELECTION BLOCK
334
METADATA NOTATION FORMAT CONVERSION BLOCK
336
METADATA APPLICATION PROCESSING BLOCK
380

FIG. 14

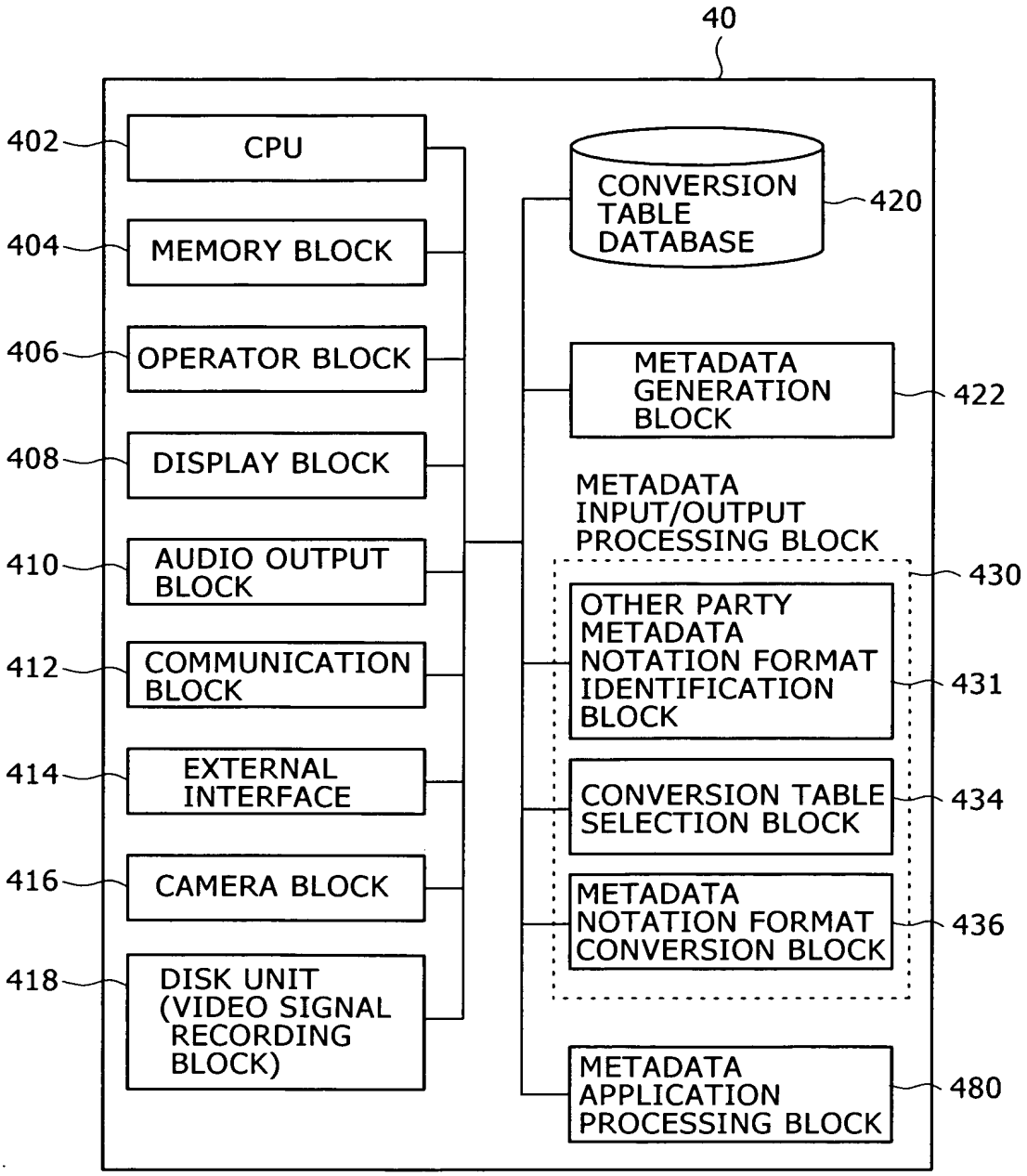

40
402
CPU
404
MEMORY BLOCK
406
OPERATOR BLOCK
408
DISPLAY BLOCK
410
AUDIO OUTPUT BLOCK
412
COMMUNICATION BLOCK
414
EXTERNAL INTERFACE
416
CAMERA BLOCK
418
DISK UNIT (VIDEO SIGNAL RECORDING BLOCK)
CONVERSION TABLE DATABASE
420
METADATA GENERATION BLOCK
422
METADATA INPUT/OUTPUT PROCESSING BLOCK
430
OTHER PARTY METADATA NOTATION FORMAT IDENTIFICATION BLOCK
431
CONVERSION TABLE SELECTION BLOCK
434
METADATA NOTATION FORMAT CONVERSION BLOCK
436
METADATA APPLICATION PROCESSING BLOCK
480

FIG. 15

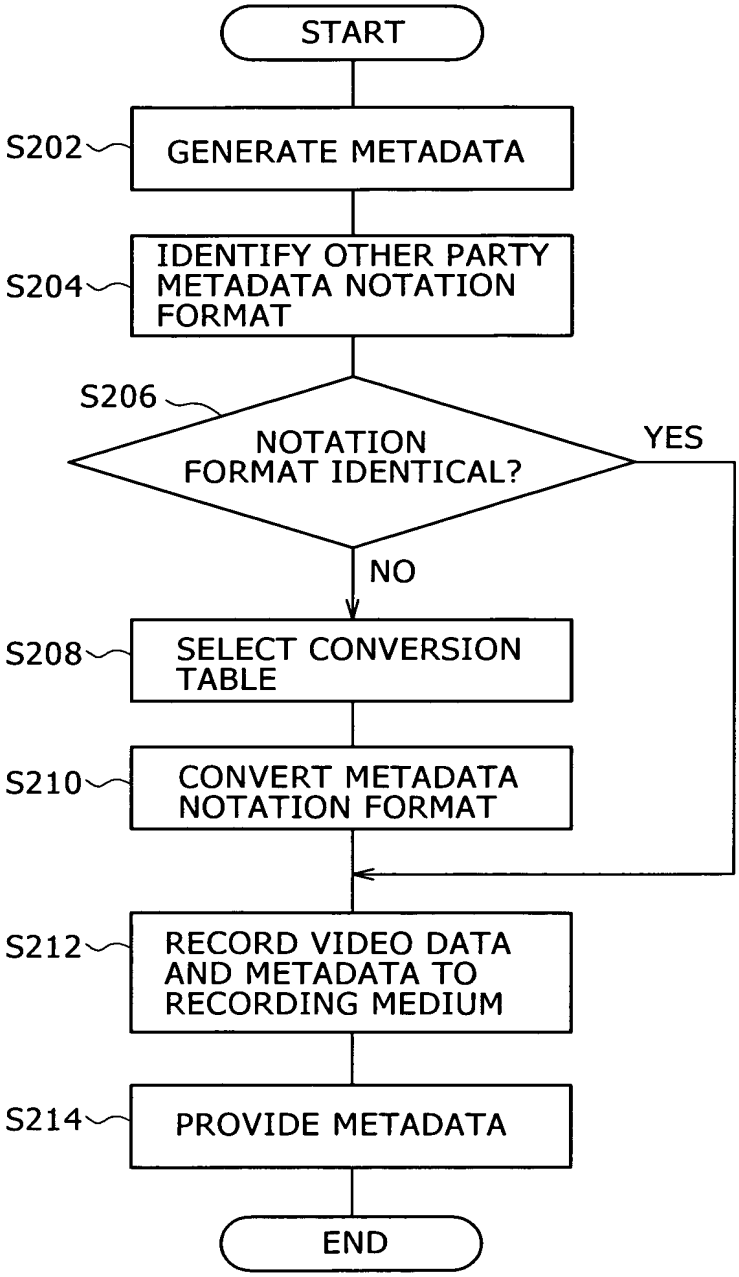

START
S202
GENERATE METADATA
S204
IDENTIFY OTHER PARTY METADATA NOTATION FORMAT
S206
NOTATION FORMAT IDENTICAL?
YES
NO
S208
SELECT CONVERSION TABLE
S210
CONVERT METADATA NOTATION FORMAT
S212
RECORD VIDEO DATA AND METADATA TO RECORDING MEDIUM
S214
PROVIDE METADATA
END

FIG. 16

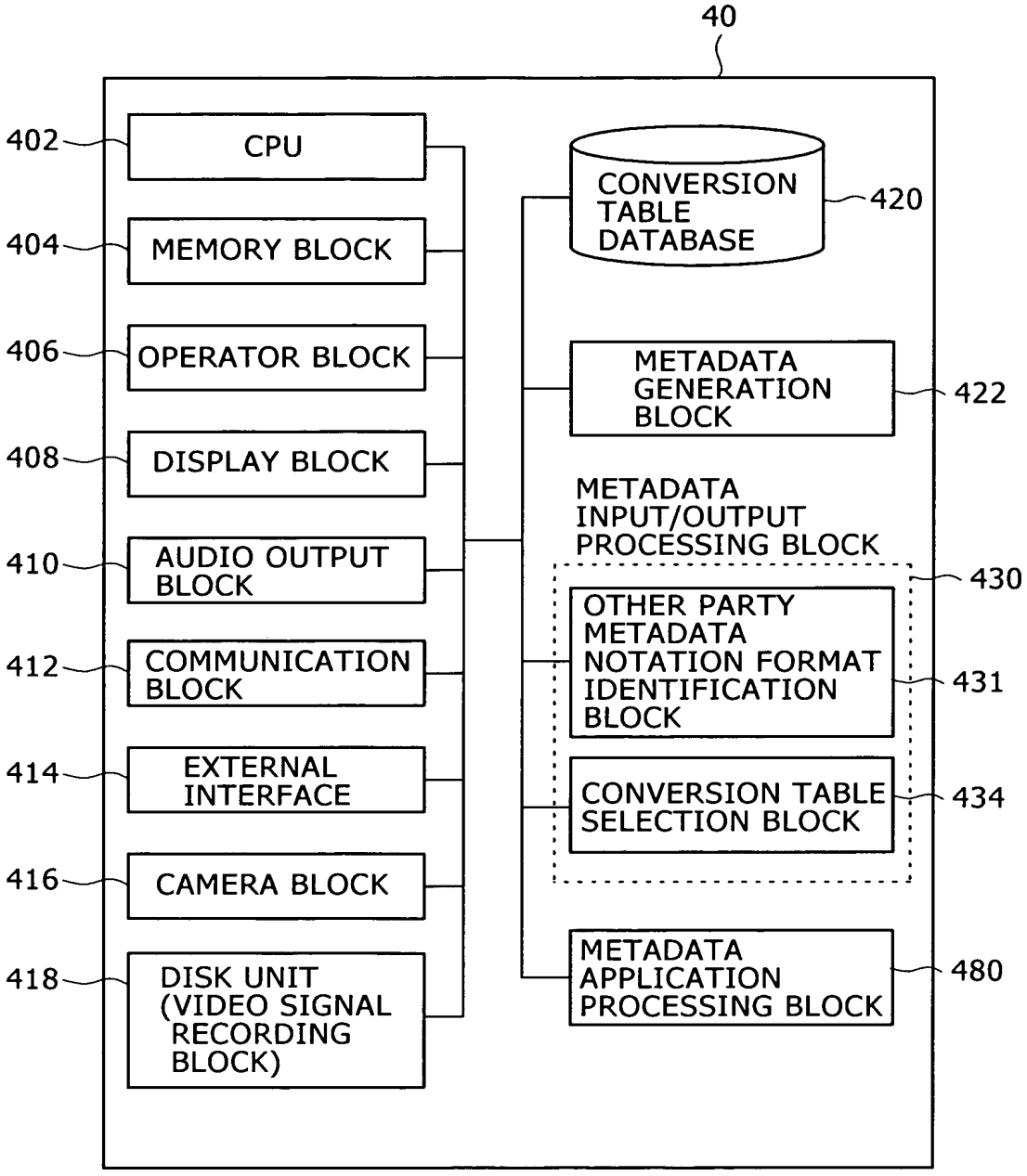

40
402
CPU
404
MEMORY BLOCK
406
OPERATOR BLOCK
408
DISPLAY BLOCK
410
AUDIO OUTPUT BLOCK
412
COMMUNICATION BLOCK
414
EXTERNAL INTERFACE
416
CAMERA BLOCK
418
DISK UNIT (VIDEO SIGNAL RECORDING BLOCK)
CONVERSION TABLE DATABASE
420
METADATA GENERATION BLOCK
422
METADATA INPUT/OUTPUT PROCESSING BLOCK
430
OTHER PARTY METADATA NOTATION FORMAT IDENTIFICATION BLOCK
431
CONVERSION TABLE SELECTION BLOCK
434
METADATA APPLICATION PROCESSING BLOCK
480

FIG. 17

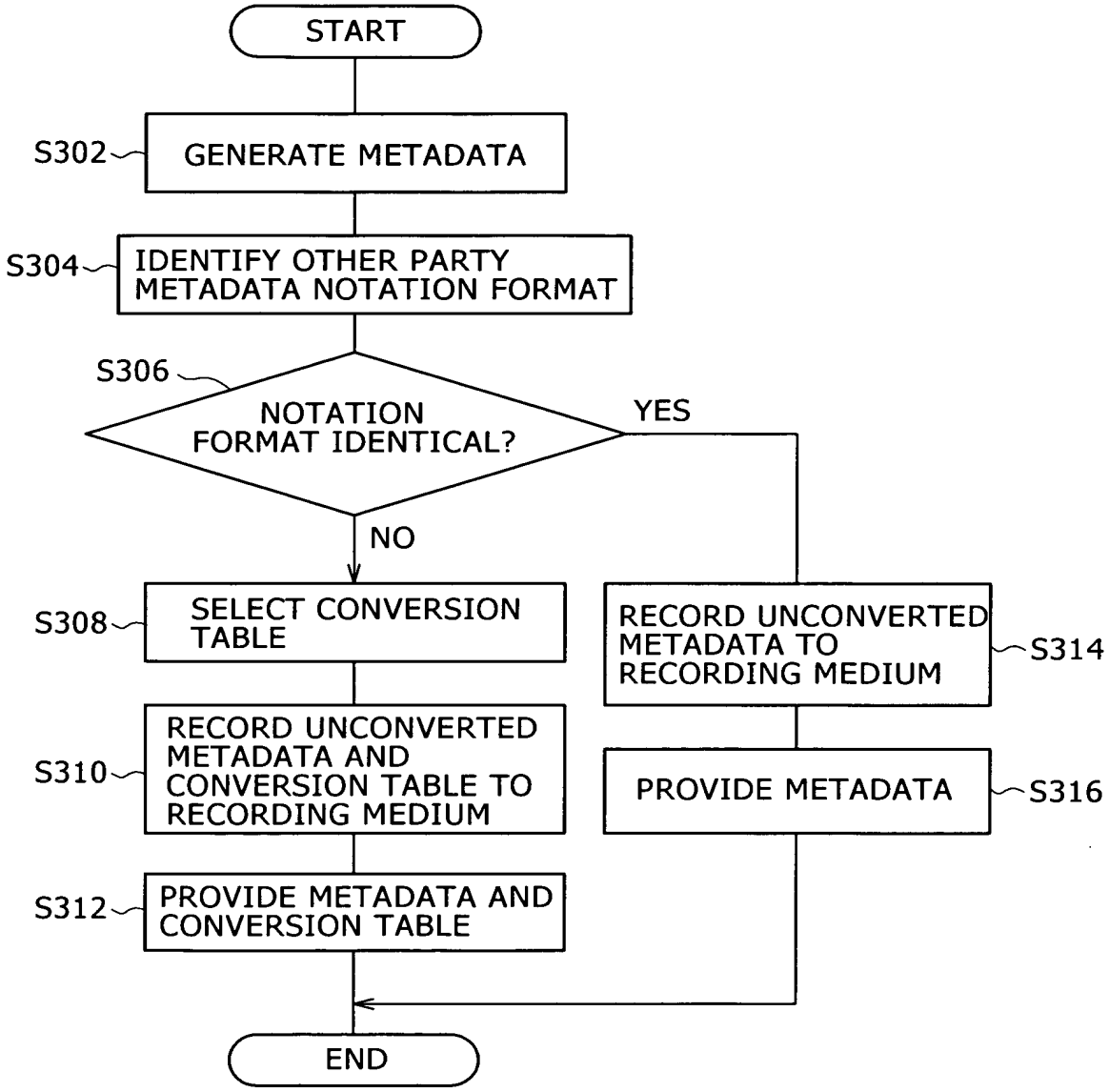

START
S302
GENERATE METADATA
S304
IDENTIFY OTHER PARTY METADATA NOTATION FORMAT
S306
NOTATION FORMAT IDENTICAL?
YES
NO
S308
SELECT CONVERSION TABLE
S310
RECORD UNCONVERTED METADATA AND CONVERSION TABLE TO RECORDING MEDIUM
S312
PROVIDE METADATA AND CONVERSION TABLE
RECORD UNCONVERTED METADATA TO RECORDING MEDIUM
S314
PROVIDE METADATA
S316
END

FIG. 18

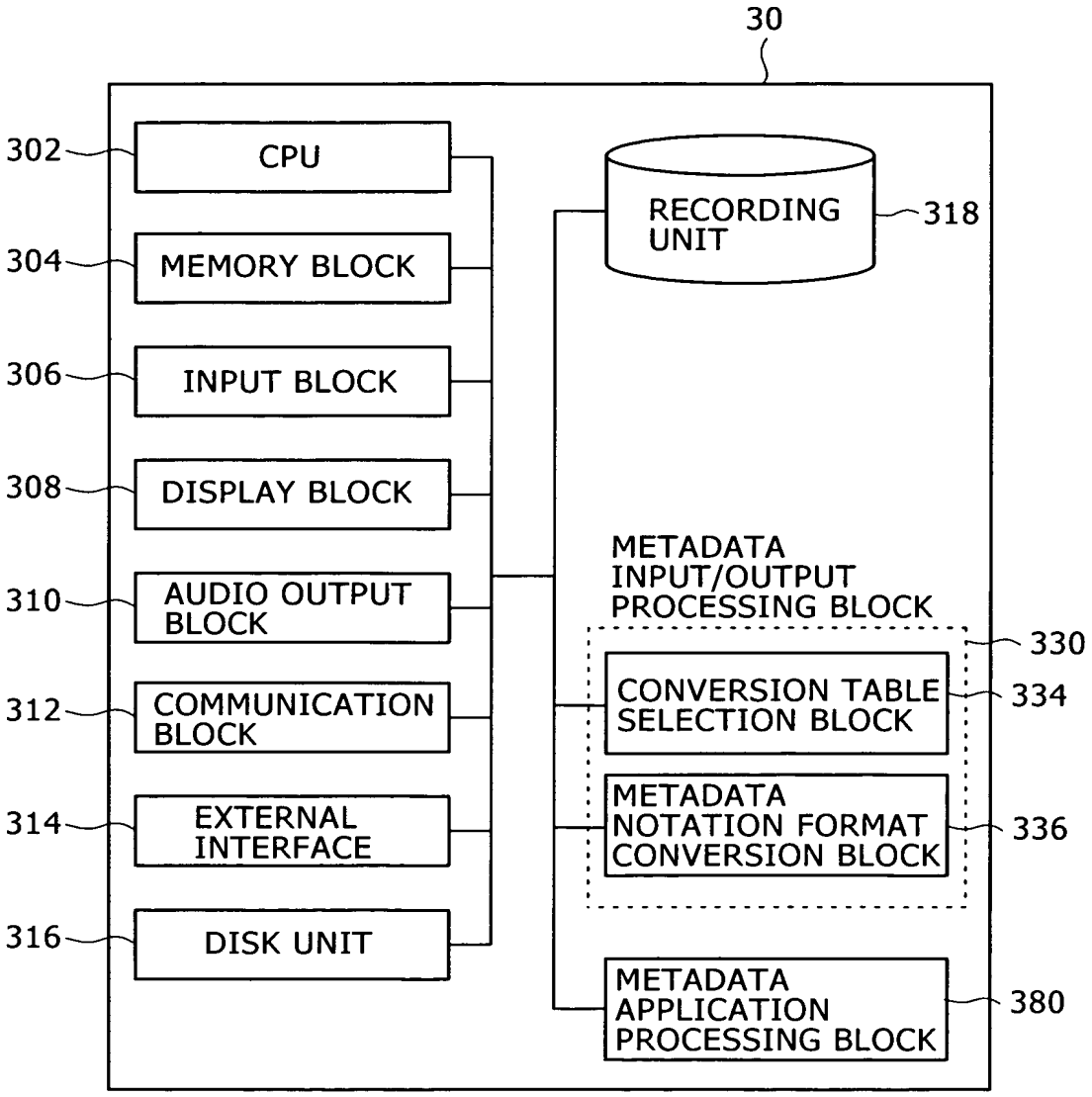
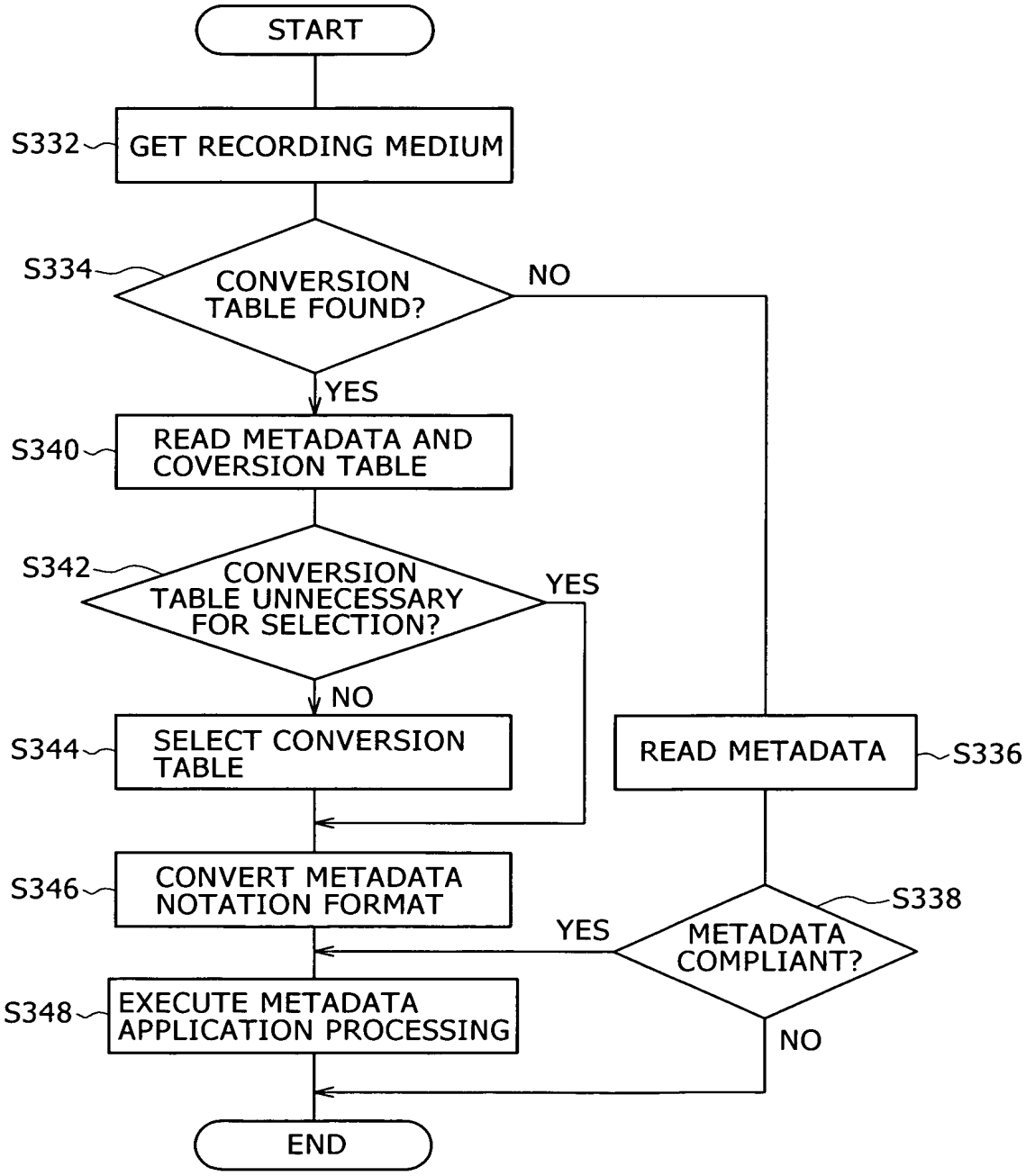

30
302
CPU
304
MEMORY BLOCK
306
INPUT BLOCK
308
DISPLAY BLOCK
310
AUDIO OUTPUT BLOCK
312
COMMUNICATION BLOCK
314
EXTERNAL INTERFACE
316
DISK UNIT
RECORDING UNIT
318
METADATA INPUT/OUTPUT PROCESSING BLOCK
330
CONVERSION TABLE SELECTION BLOCK
334
METADATA NOTATION FORMAT CONVERSION BLOCK
336
METADATA APPLICATION PROCESSING BLOCK
380

FIG. 19


START
S332
GET RECORDING MEDIUM
S334
CONVERSION TABLE FOUND?
NO
YES
S340
READ METADATA AND COVERSION TABLE
S342
CONVERSION TABLE UNNECESSARY FOR SELECTION?
YES
NO
S344
SELECT CONVERSION TABLE
READ METADATA
S336
S346
CONVERT METADATA NOTATION FORMAT
S338
YES
METADATA COMPLIANT?
S348
EXECUTE METADATA APPLICATION PROCESSING
NO
END